

TTT - Titan Temperature Transmitter

OEM Temperature Transmitter



Description:

The Titan TTT series of Temperature Transmitters is engineered for high-performance thermal sensing, integrating industry-standard resistance thermometers (PT100, PT1000, NTC, PTC) or thermocouples within a rugged stainless steel enclosure. Leveraging our latest signal-processing electronics, the series provides highly stable and accurate analogue (TTTa) or digital (TTTd) outputs, each precision-calibrated and thermally compensated to meet the specific requirements of your application.

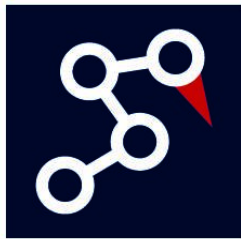
Designed for versatility in demanding environments, the TTT series offers ingress protection up to IP66 via an integrated cable outlet or a standard M12 x 1, 4-pin connector. To ensure seamless integration into any system, the series is available with customizable probe lengths, various process connections, and a wide array of output protocols. These include standard resistance and thermocouple signals, 0.5 to 4.5V (ratiometric or regulated) analogue outputs, and digital I2C or SPI interfaces, making the TTT series an ideal solution for a diverse range of industrial applications.

Product Highlights:

- Temperature ranges from -25 to +150°C
- Accuracy Based on Class A or Class B
- All stainless steel construction
- Various analogue & digital outputs
- Choice of mechanical connections
- Cost effective for OEM solutions

Applications include, but not limited to:

- OEM installations
- Laboratory & Research testing
- Hydraulic & Pneumatic testing
- Medical testing / prototyping
- Data loggers
- Automotive component testing
- Academic research



STORKSOLUTIONS

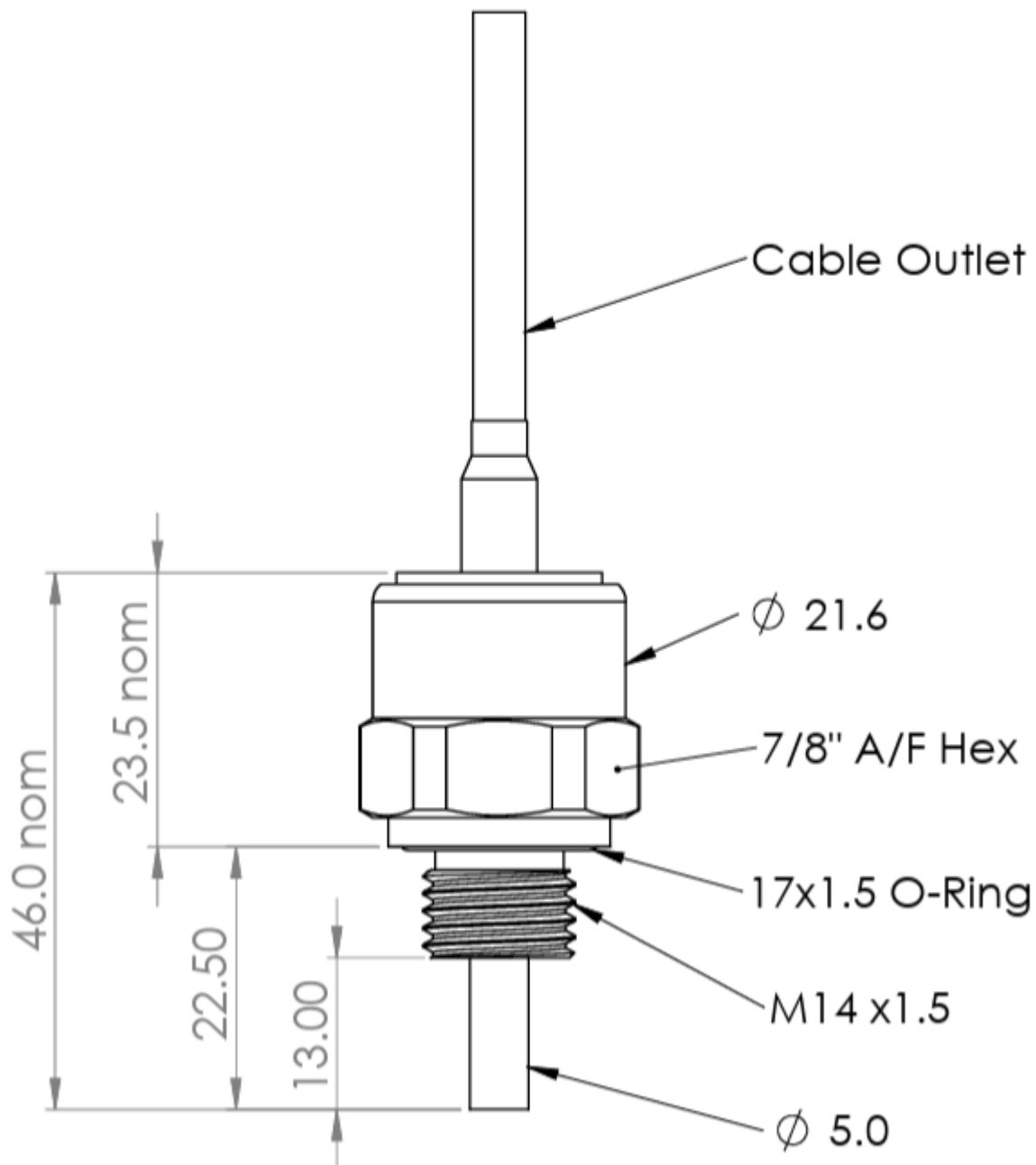
Specification:

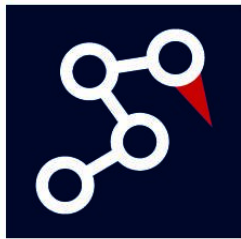
TTT Series - Temperature Transmitter	
Sensor technology	PT100, PT1000, NTC, PTC or thermocouples
Output Versions	resistance and thermocouple signals, 0.5 to 4.5V (ratiometric or regulated) analogue outputs, and digital I2C or SPI interfaces
Supply voltage	resistance and thermocouple signals = n/a 0.5 to 4.5V ratiometric = 5V dc 0.5 to 4.5V regulated = 8-16V dc digital I2C or SPI = 5V dc
Temperature range	-25 to +150°C
Long Term Stability:	≤ ±0.10 % FS
Response time (electronics)	<10mseconds
Ambient temperature	-20 °C to +125 °C
Media temperature	-20 °C to +150 °C
Storage temperature	-20 °C to +100 °C
Media wetted parts	303 Stainless Steel, FKM Seal
Process Connection	M14x1.5 thread with external captive O ring: 14x1.5 (Others on request)
Probe Dimensions	5mm diameter x 13mm Length (Others on request)
Permissible media	All fluids compatible with media wetted parts
Electrical Connection	500mm of Screened cable, terminated in tails, refer to drawing
Cable sheath material	PTFE
Environmental Protection	IP66



Dimensional Drawings:

TTT Series - Temperature Transmitter





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Part Numbering:

TTT Series - Temperature Transmitter																			
TTT - Titan Temperature Transmitter		TTT	-	X	X	-	X	X	-	X	X	-	X	X	-	X	X	X	X
Output Type																			
Pt100, 3-wire		A																	
Pt1000, 3-wire		B																	
10k PTC		C																	
10k NTC		D																	
Type K thermocouple		E																	
0.5 to 4.5V (3-wire)		F																	
i2c digital		G																	
SPi digital		H																	
Accuracy Class																			
Accuracy Class 1.0		A																	
Accuracy Class 0.5		B																	
Electrical Connection																			
FEP Insulated Screened Cable, 26AWG		A																	
M12x1, 4-pin Connector		B																	
Packard Metri-Pak 150 Series Connector		C																	
Others on request		X																	
Process Connection																			
M14x1.5 thread with external captive O ring: 14x1.5		M																	
Others on request		X																	
Housing Material																			
303 Stainless Steel		A																	
Probe Length																			
5mm								0	0	5									
Others on request								X	X	X									
Temperature Range																			
-0 to +50°C											M	0	0	P	0	5	0		
-0 to +100°C											M	0	0	P	1	0	0		
-25 to +125°C											M	2	5	P	1	2	5		
-25 to +150°C											M	2	5	P	1	5	0		
-10 to +30°C											M	1	0	P	0	3	0		
-13 to +257°F											M	1	3	P	2	5	7		
32 to +212°F											M	3	2	P	2	1	2		
Measurement Units																			
Centigrade																		C	
Fahrenheit																		F	
Special Options																			
None																		0	0